



SEQUENCE LISTING

<110> RENARD, MICHEL

DELOURME, REGINE

BARRET, PIERRE

BRUNEL, DOMINIQUE

FROGER, NICOLE

TANGUY, XAVIER

<120> MUTANT GENE OF THE GRAS FAMILY AND PLANTS WITH REDUCED DEVELOPMENT
CONTAINING SAID MUTANT GENE

<130> 218874US0PCT

<140> 10/030,194

<141> 2002-02-04

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<170> PatentIn version 3.1

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Ile Ala Gly Ser Ser Thr Ser Ser Pro Ala Val Phe Gly Lys Asp Lys
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Met Met Met Val Lys Glu Glu Glu Asp Asp Glu Leu Leu Gly Val Leu
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Arg	Val	Glu	Arg	His	Glu	Thr	Leu	Ser	Gln	Trp	Ser	Asn	Arg	Phe	Gly	
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tcg	tcc	ggt	ttt	gcg	ccg	gcg	cat	ctc	ggg	tct	aac	gcg	ttt	aag	caa	1643
Ser	Ser	Gly	Phe	Ala	Pro	Ala	His	Leu	Gly	Ser	Asn	Ala	Phe	Lys	Gln	
		515					520					525				
gcg	agt	acg	ctt	ttg	gct	ttg	ttt	aat	gga	ggc	gaa	ggt	tat	cgt	gtg	1691
Ala	Ser	Thr	Leu	Leu	Ala	Leu	Phe	Asn	Gly	Gly	Glu	Gly	Tyr	Arg	Val	
	530					535					540					
gag	aag	aat	aat	ggg	tgt	ttg	atg	ttg	agt	tgg	cac	act	cga	ccg	ctc	1739
Glu	Lys	Asn	Asn	Gly	Cys	Leu	Met	Leu	Ser	Trp	His	Thr	Arg	Pro	Leu	
545					550					555					560	
ata	acc	acc	tcc	gct	tgg	aag	ctc	tcg	gcg	gtg	cac	tga	g			1779
Ile	Thr	Thr	Ser	Ala	Trp	Lys	Leu	Ser	Ala	Val	His					
				565					570							

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<211> 572

<212> PRT

<213> Brassica napus

<400> 4

Met	Lys	Arg	Asp	Leu	His	Gln	Phe	Gln	Gly	Pro	Asn	His	Gly	Thr	Ser	
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Ile	Ala	Gly	Ser	Ser	Thr	Ser	Ser	Pro	Ala	Val	Phe	Gly	Lys	Asp	Lys	
			20					25					30			
Met	Met	Met	Val	Lys	Glu	Glu	Glu	Asp	Asp	Glu	Leu	Leu	Gly	Val	Leu	
		35					40					45				
Gly	Tyr	Lys	Val	Arg	Ser	Ser	Glu	Met	Ala	Glu	Val	Ala	Leu	Lys	Leu	
	50					55					60					
Glu	Gln	Leu	Glu	Thr	Met	Met	Gly	Asn	Ala	Gln	Glu	Asp	Gly	Leu	Ala	
65					70					75					80	

His Leu Ala Thr Asp Thr Val His Tyr Asn Pro Ala Glu Leu Tyr Ser
 85 90 95

Trp Leu Asp Asn Met Leu Thr Glu Leu Asn Pro Pro Ala Ala Thr Thr
 100 105 110

Gly Ser Asn Ala Leu Asn Pro Glu Ile Asn Asn Asn Asn Asn Ser
 115 120 125

Phe Phe Thr Gly Gly Asp Leu Lys Ala Ile Pro Gly Asn Ala Val Cys
 130 135 140

Arg Arg Ser Asn Gln Phe Ala Phe Ala Val Asp Ser Ser Ser Asn Lys
 145 150 155 160

Arg Leu Lys Pro Ser Ser Ser Pro Asp Ser Met Val Thr Ser Pro Ser
 165 170 175

Pro Ala Gly Val Ile Gly Thr Thr Val Thr Thr Val Thr Glu Ser Thr
 180 185 190

Arg Pro Leu Ile Leu Val Asp Ser Gln Asp Asn Gly Val Arg Leu Val
 195 200 205

His Ala Leu Met Ala Cys Ala Glu Ala Val Gln Ser Ser Asn Leu Thr
 210 215 220

Leu Ala Glu Ala Leu Val Lys Gln Ile Gly Phe Leu Ala Val Ser Gln
 225 230 235 240

Ala Gly Ala Met Arg Lys Val Ala Thr Tyr Phe Ala Glu Ala Leu Ala
 245 250 255

Arg Arg Ile Tyr Arg Leu Ser Pro Pro Gln Thr Gln Ile Asp His Ser
 260 265 270

Leu Ser Asp Thr Leu Gln Met His Phe Tyr Glu Thr Cys Pro Tyr Leu
 275 280 285

Lys Phe Ala His Phe Thr Ala Asn Gln Ala Ile Leu Glu Ala Phe Glu
 290 295 300
 Gly Lys Lys Arg Val His Val Ile Asp Phe Ser Met Asn Gln Gly Leu
 305 310 315 320
 Gln Trp Pro Ala Leu Met Gln Ala Leu Ala Leu Arg Glu Gly Gly Pro
 325 330 335
 Pro Ser Phe Arg Leu Thr Gly Ile Gly Pro Pro Ala Ala Asp Asn Ser
 340 345 350
 Asp His Leu His Glu Val Gly Cys Lys Leu Ala Gln Leu Ala Glu Ala
 355 360 365
 Ile His Val Glu Phe Glu Tyr Arg Gly Phe Val Ala Asn Ser Leu Ala
 370 375 380
 Asp Leu Asp Ala Ser Met Leu Glu Leu Arg Pro Ser Glu Thr Glu Ala
 385 390 395 400
 Val Ala Val Asn Ser Val Phe Glu Leu His Lys Leu Leu Gly Arg Thr
 405 410 415
 Gly Gly Ile Glu Lys Val Phe Gly Val Val Lys Gln Ile Lys Pro Val
 420 425 430
 Ile Phe Thr Val Val Glu Gln Glu Ser Asn His Asn Gly Pro Val Phe
 435 440 445
 Leu Asp Arg Phe Thr Glu Ser Leu His Tyr Tyr Ser Thr Leu Phe Asp
 450 455 460
 Ser Leu Glu Gly Ala Pro Ser Ser Gln Asp Lys Val Met Ser Glu Val
 465 470 475 480
 Tyr Leu Gly Lys Gln Ile Cys Asn Leu Val Ala Cys Glu Gly Pro Asp
 485 490 495

Arg Val Glu Arg His Glu Thr Leu Ser Gln Trp Ser Asn Arg Phe Gly
500 505 510

Ser Ser Gly Phe Ala Pro Ala His Leu Gly Ser Asn Ala Phe Lys Gln
515 520 525

Ala Ser Thr Leu Leu Ala Leu Phe Asn Gly Gly Glu Gly Tyr Arg Val
530 535 540

Glu Lys Asn Asn Gly Cys Leu Met Leu Ser Trp His Thr Arg Pro Leu
545 550 555 560

Ile Thr Thr Ser Ala Trp Lys Leu Ser Ala Val His
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<212> PRT

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<222> (3)..(3)

<223> Xaa = Arg or Asn

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Gly Tyr Xaa Val Glu Glu
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<210> 6

<211> 6

<212> PRT

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<222> (3)..(3)

<223> Xaa = Arg or Asn

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<222> (6)..(6)

<223> Xaa = any amino acid except Glu

<400> 6

Gly Tyr Xaa Val Glu Xaa
1 5